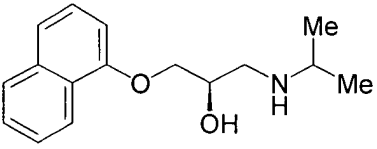
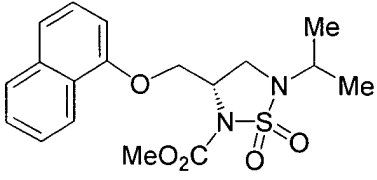
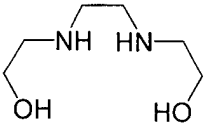
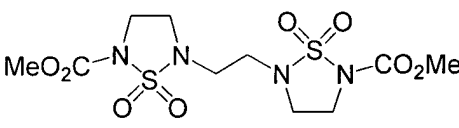
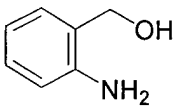
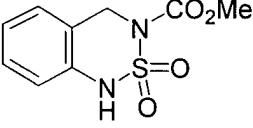
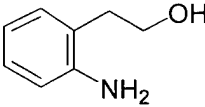
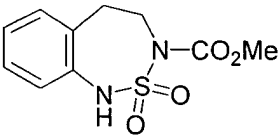


Figure 1

$ \begin{array}{c} \text{R}^1\text{NH} \\ \\ \text{CH} \\ \\ \text{R}^2\text{CH}_2\text{OH} \end{array} \xrightarrow[\text{THF, } \Delta, 8 \text{ h}]{\text{Burgess reagent (1)}} \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{R}^1\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH} \quad \text{CH} \\ \quad \\ \text{R}^2\text{CH}_2 \quad \text{CH}_2 \end{array} $			
Entry	Starting Material	Product	Yield [%]
1	$ \begin{array}{c} \text{Me} \\ \\ \text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>4</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{MeN} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>5</p>	75
2	$ \begin{array}{c} \text{C}_6\text{H}_5\text{CH}_2\text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>6</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{C}_6\text{H}_5\text{CH}_2\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>7</p>	85
3	$ \begin{array}{c} \text{Me} \quad \text{Me} \\ \diagdown \quad \diagup \\ \text{C} \\ \\ \text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>8</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{Me} \quad \text{Me} \\ \diagdown \quad \diagup \\ \text{C} \\ \\ \text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>9</p>	81
4	$ \begin{array}{c} \text{C}_6\text{H}_{11}\text{NH} \\ \\ \text{CH}_2\text{OH} \end{array} $ <p>10</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{C}_6\text{H}_{11}\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>11</p>	77
5	$ \begin{array}{c} \text{C}_6\text{H}_5\text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>12</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{C}_6\text{H}_5\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>13</p>	92
6	$ \begin{array}{c} \text{O}_2\text{N}-\text{C}_6\text{H}_4\text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>14</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{O}_2\text{N}-\text{C}_6\text{H}_4\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>15</p>	75
7	$ \begin{array}{c} \text{CF}_3 \\ \\ \text{C}_6\text{H}_3\text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>16</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{CF}_3 \\ \\ \text{C}_6\text{H}_3\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>17</p>	82
8	$ \begin{array}{c} \text{OMe} \\ \\ \text{C}_6\text{H}_3\text{NH} \\ \\ \text{CH}_2\text{CH}_2\text{OH} \end{array} $ <p>18</p>	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{OMe} \\ \\ \text{C}_6\text{H}_3\text{N} \quad \text{N}-\text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 \quad \text{CH}_2 \end{array} $ <p>19</p>	69

Figure 2

Entry	Starting Material	Product	Yield [%]
1	 20	 21	89 ^[a]
2	 22	 23	55 ^[b]
3	 24	 25	45 ^[c]
4	 26	 27	90 ^[d]

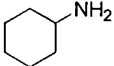
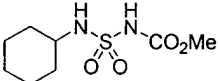
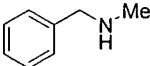
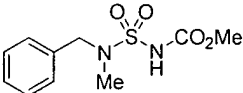
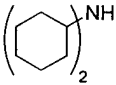
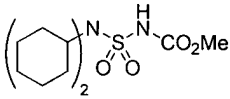

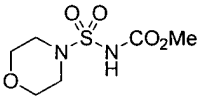

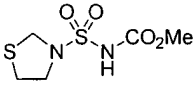
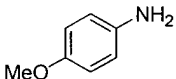
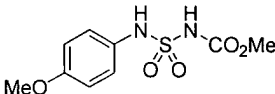
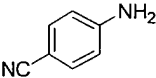
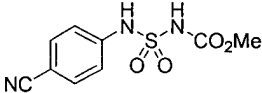
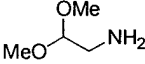
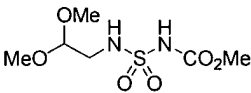
[a] THF, Δ , 21 h; [b] THF, Δ , 8 h; [c] 0 $^{\circ}\text{C}$, 1 h, then 25 $^{\circ}\text{C}$, 5 h; [d] THF, Δ , 2 h.

Figure 3

$ \begin{array}{c} \text{H}_2\text{N} \quad \text{OH} \\ \quad \\ \text{R}^1 - \text{C} - (\text{CH}_2)_n - \text{C} - \text{R}^4 \\ \quad \\ \text{R}^2 \quad \text{R}^3 \end{array} \xrightarrow[\text{THF, } \Delta, 8 \text{ h}]{\text{Burgess reagent (1)}} \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{R}^1 - \text{C} - (\text{CH}_2)_n - \text{C} - \text{R}^4 \\ \quad \\ \text{R}^2 \quad \text{R}^3 \end{array} $			
Entry	Starting Material	Product	Yield [%]
1	$ \begin{array}{c} \text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH} \\ \mathbf{28} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 - \text{CH}_2 \end{array} \mathbf{29} $	62
2	$ \begin{array}{c} \text{Me} \quad \text{Me} \\ \quad \\ \text{H}_2\text{N}-\text{C}-\text{CH}_2-\text{OH} \\ \mathbf{30} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{Me} \quad \text{Me} \end{array} \mathbf{31} $	39
3	$ \begin{array}{c} \text{H}_2\text{N} \quad \text{OH} \\ \quad \\ \text{Cyclohexane ring} \\ \mathbf{32} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{Cyclohexane ring} \end{array} \mathbf{33} $	34
4	$ \begin{array}{c} \text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH} \\ \mathbf{34} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 \end{array} \mathbf{35} $	42
5	$ \begin{array}{c} \text{H}_2\text{N} \quad \text{OH} \\ \quad \\ \text{CH}_2 - \text{CH} - \text{Ph} \\ \mathbf{36} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{CH}_2 - \text{CH} - \text{Ph} \\ \mathbf{37} \end{array} $	90 ^[a]
6	$ \begin{array}{c} \text{H}_2\text{N} \quad \text{OH} \\ \quad \\ \text{CH} - \text{CH} - \text{Ph} \\ \quad \\ \text{Ph} \quad \text{Ph} \\ \mathbf{38} \end{array} $	$ \begin{array}{c} \text{O}=\text{S}(=\text{O}) \\ \quad \\ \text{HN} - \text{C} - \text{N} - \text{CO}_2\text{Me} \\ \quad \\ \text{CH} - \text{CH} - \text{Ph} \\ \quad \\ \text{Ph} \quad \text{Ph} \\ \mathbf{39} \end{array} $	76 ^[a]

[a] 0 °C, 1 h, then 25 °C, 5 h.

Figure 4

$ \begin{array}{c} \text{R}^2 \\ \\ \text{R}^1-\text{N}-\text{H} \\ \\ \text{H} \end{array} \xrightarrow[\text{THF, } \Delta, 2 \text{ h}]{\text{Burgess reagent (1)}} \begin{array}{c} \text{R}^2 \\ \\ \text{R}^1-\text{N}-\text{S}(=\text{O})_2-\text{N}-\text{H} \\ \quad \\ \text{O} \quad \text{O} \quad \text{CO}_2\text{Me} \end{array} $			
Entry	Starting Material	Product	Yield [%]
1	 40	 41	83
2	 42	 43	91
3	 44	 45	82
4	 46	 47	87
5	 48	 49	73
6	 50	 51	97
7	 52	 53	66
8	 54	 55	98 ^[a]

[a] -10 to 25 °C, 24 h.

Figure 5

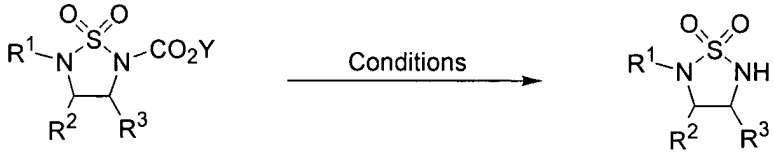
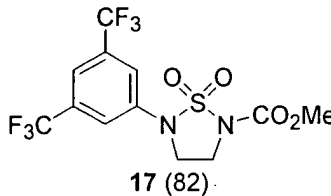
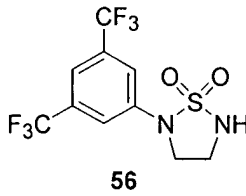
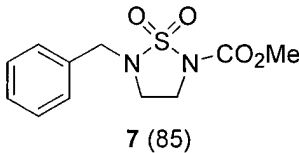
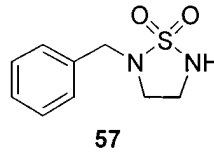
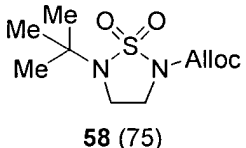
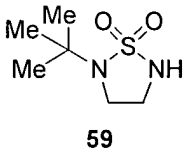
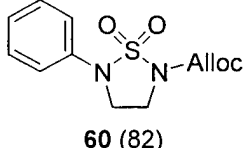
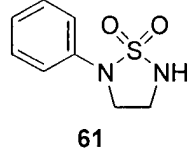
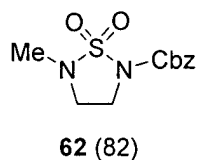
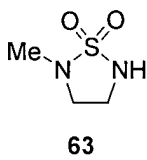
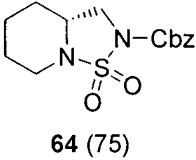
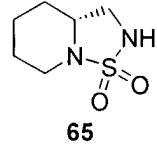
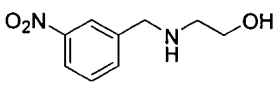
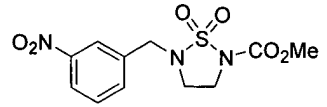
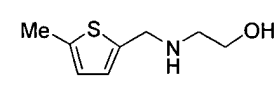
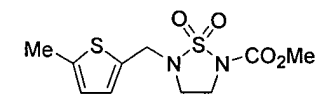
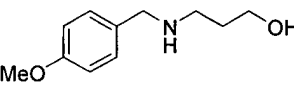
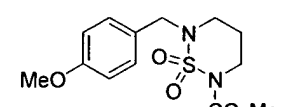
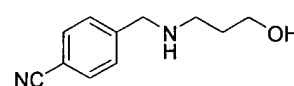
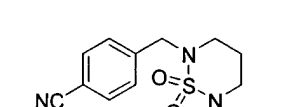
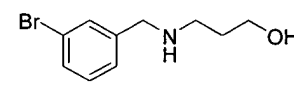
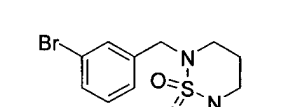
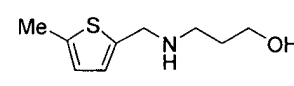
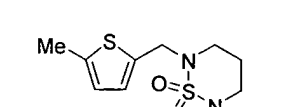
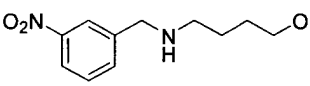
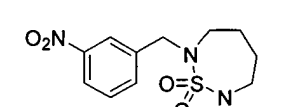
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Entry	Starting Material (Yield [%]) ^[a]	Product	Yield [%]
1	 17 (82)	 56	99 ^[b]
2	 7 (85)	 57	99 ^[b]
3	 58 (75)	 59	97 ^[c]
4	 60 (82)	 61	98 ^[c]
5	 62 (82)	 63	84 ^[d]
6	 64 (75)	 65	87 ^[d]

Figure 6

Entry	Starting Material	Product	Yield [%]
1	 66	 67	89
2	 68	 69	92
3	 70	 71	93
4	 72	 73	87
5	 74	 75	83
6	 76	 77	89
7	 78	 79	81

Preparation of starting substrates:

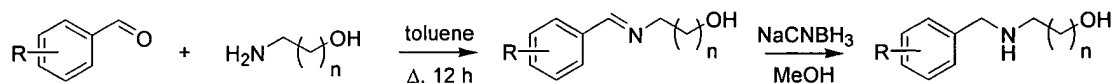


Figure 7